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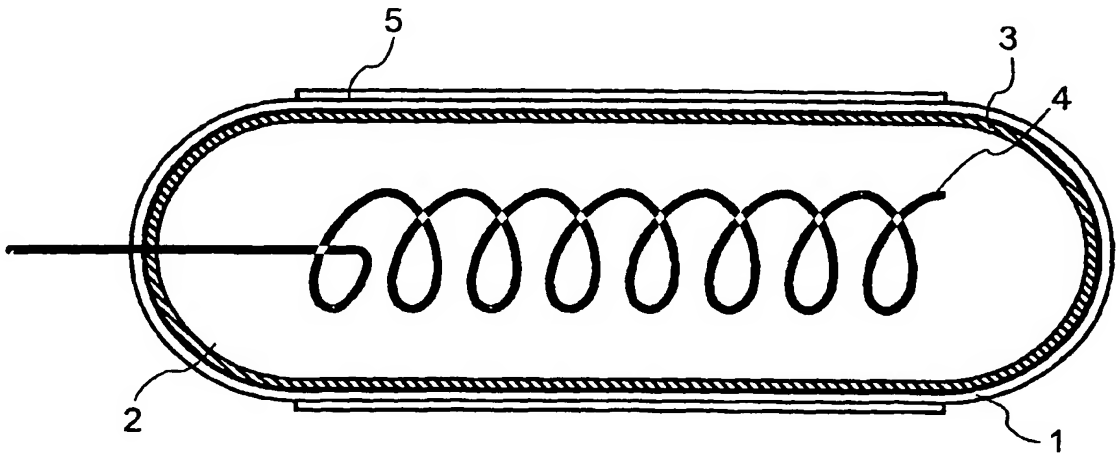
(54) Title: DEVICE FOR GENERATING RADIATION



(57) Abstract: The invention relates to a device for generating radiation by means of excimer discharge, equipped with an at least partly UV-transparent discharge vessel (1), the discharge chamber (2) of which is filled with a gas filling, with means for igniting and maintaining an excimer discharge (4, 5) in the discharge chamber and with a coating (3) comprising a light-emitting compound. The light-emitting compound has the following composition:$(Ca_{1-x-2y}Sr_x)Li_2Si_{1-z}Ge_zO_4:Ln_yM_y$,wherein Ln is a cation selected from the group Ce^{3+}, Pr^{3+}, Sm^{3+}, Eu^{3+}, Gd^{3+}, Tb^{3+}, Dy^{3+}, Er^{3+}, Tm^{3+} and Yb^{3+}, and M is a cation selected from the group Na^+, K^+ and Rb^+,0 £ x £ 0.1, 0.001 £ y £ 0.2 and 0 £ z £ 1. The coating (3) preferably comprises $Ca_{1-2y}Li_2SiO_4:Pr_yNa_y$ with 0.001 £ y £ 0.2. A device with a coating (3) comprising $Ca_{1-2y}Li_2SiO_4:Pr_yNa_y$ with 0.001 £ y £ 0.2 may be used for disinfection purposes.

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